PLANS

of

Merchanical Structures

on the

GENESEE VALLEY

CANAL

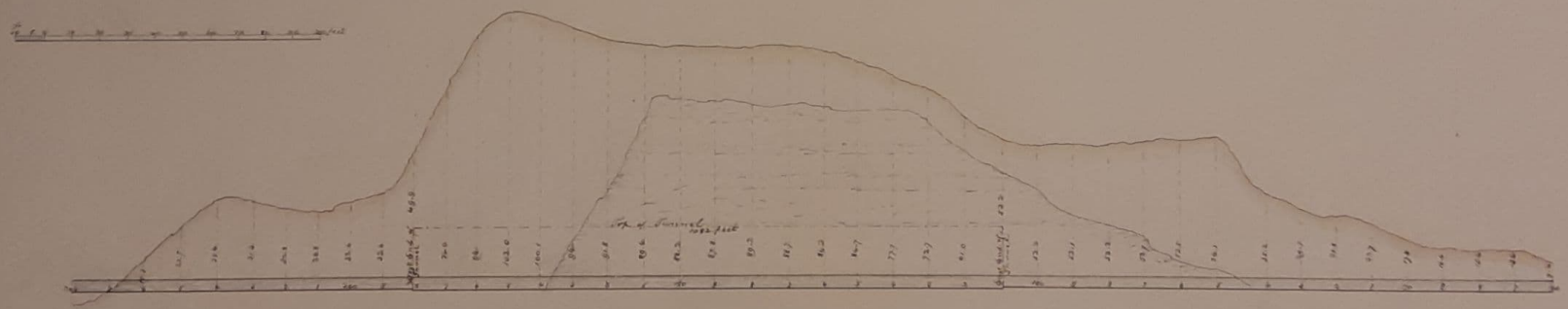
P. EMSLIE. DEL.

THE BUFFALO HISTORY MUSEUM

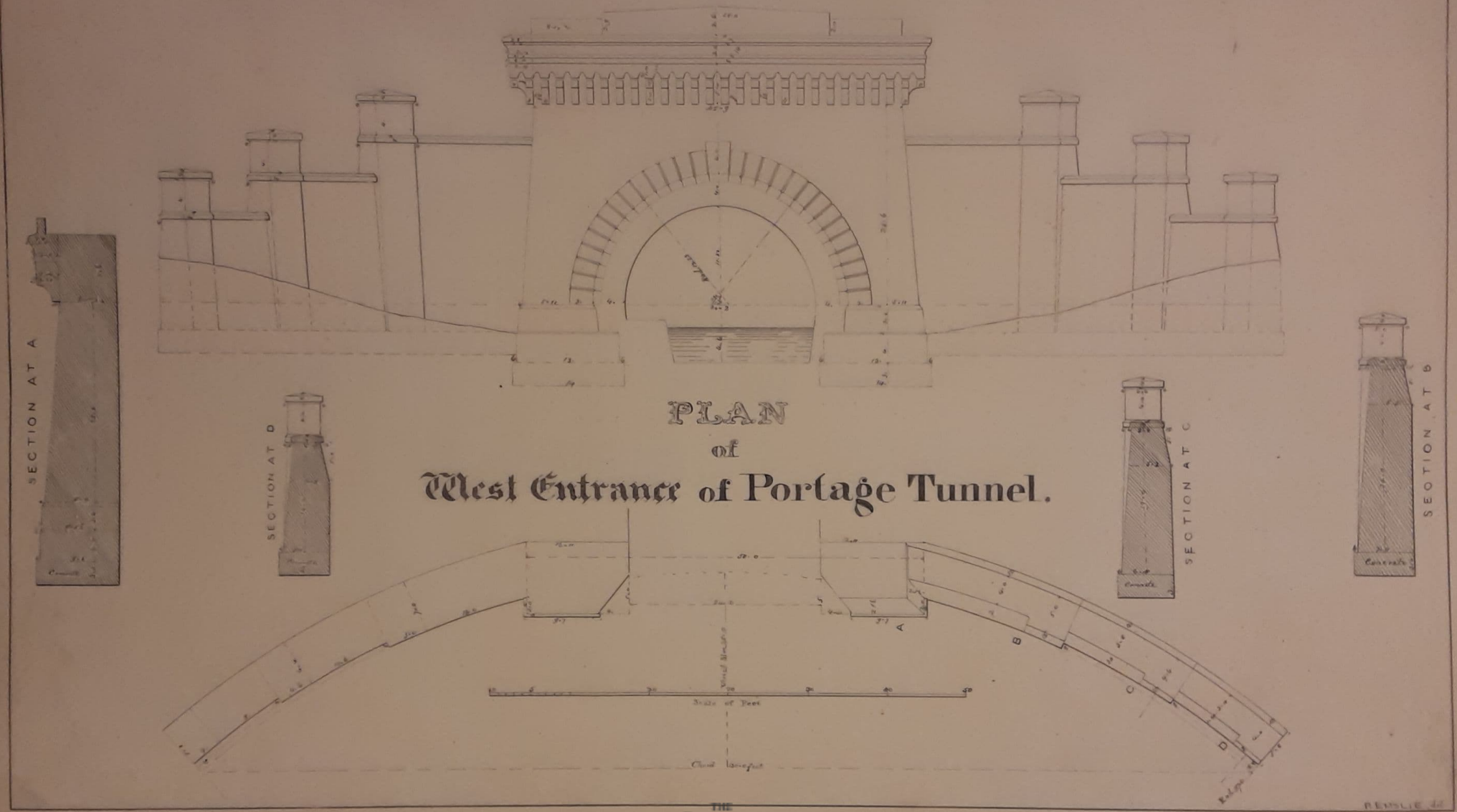
Double Oversize
TC
625
.G46
A5
1860

L9455

MAP of the LOCATION OF Portage Tunnel.



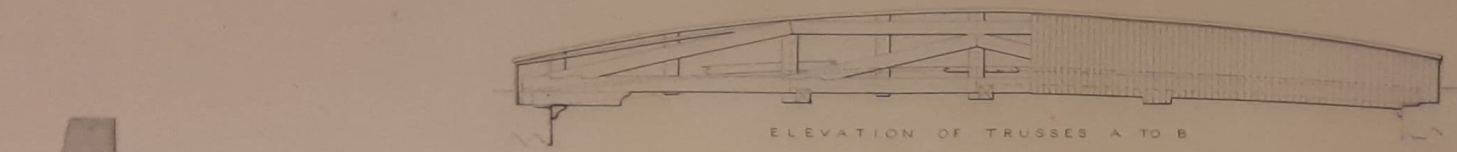
THE BUFFALO HISTORY MUSEUM



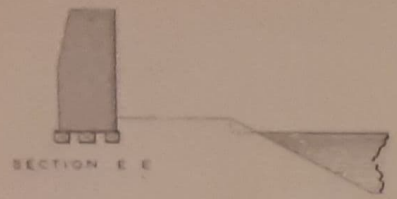
PLAN
of
West Entrance of Portage Tunnel.

THE BUFFALO HISTORY MUSEUM

THE BUFFALO HISTORICAL MUSEUM

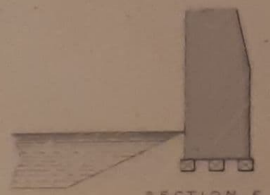


ELEVATION OF TRUSSES A TO B



SECTION E E

ELEVATION OF CENTRE TRUSS

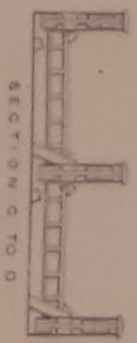


SECTION F F

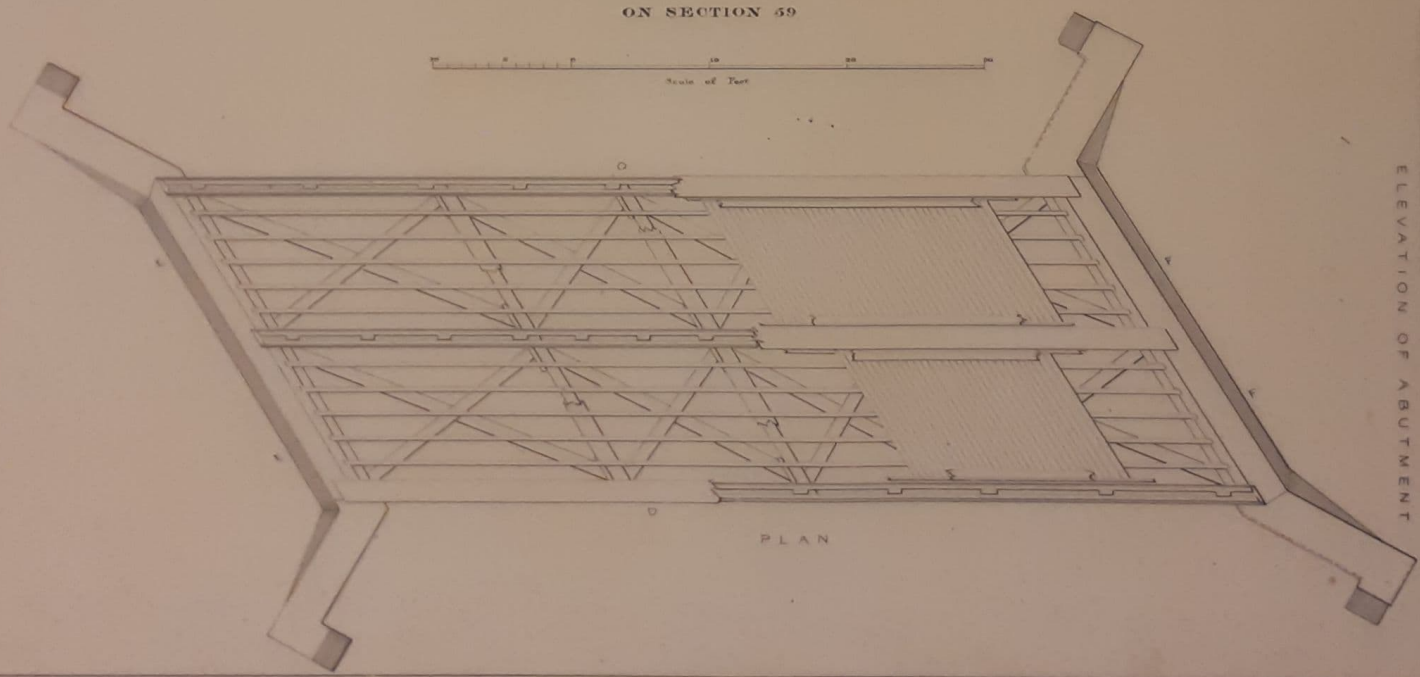
SKEW BRIDGE

ON SECTION 59

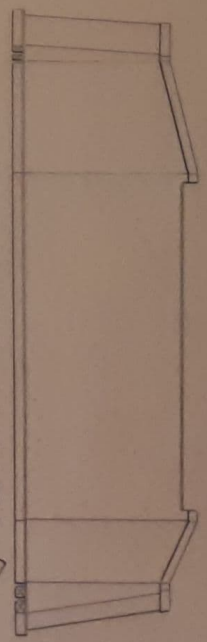
Scale of Feet



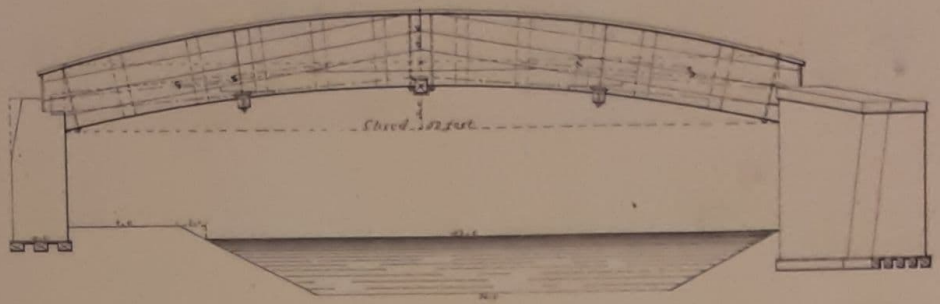
SECTION C TO D

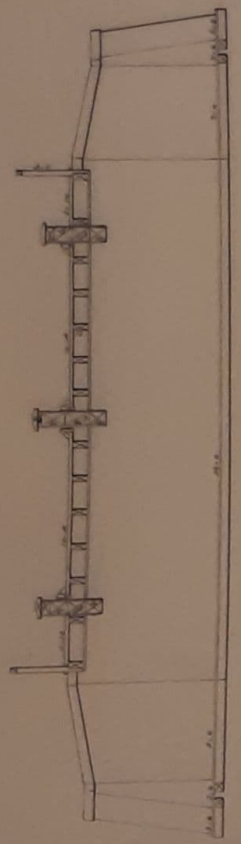


PLAN

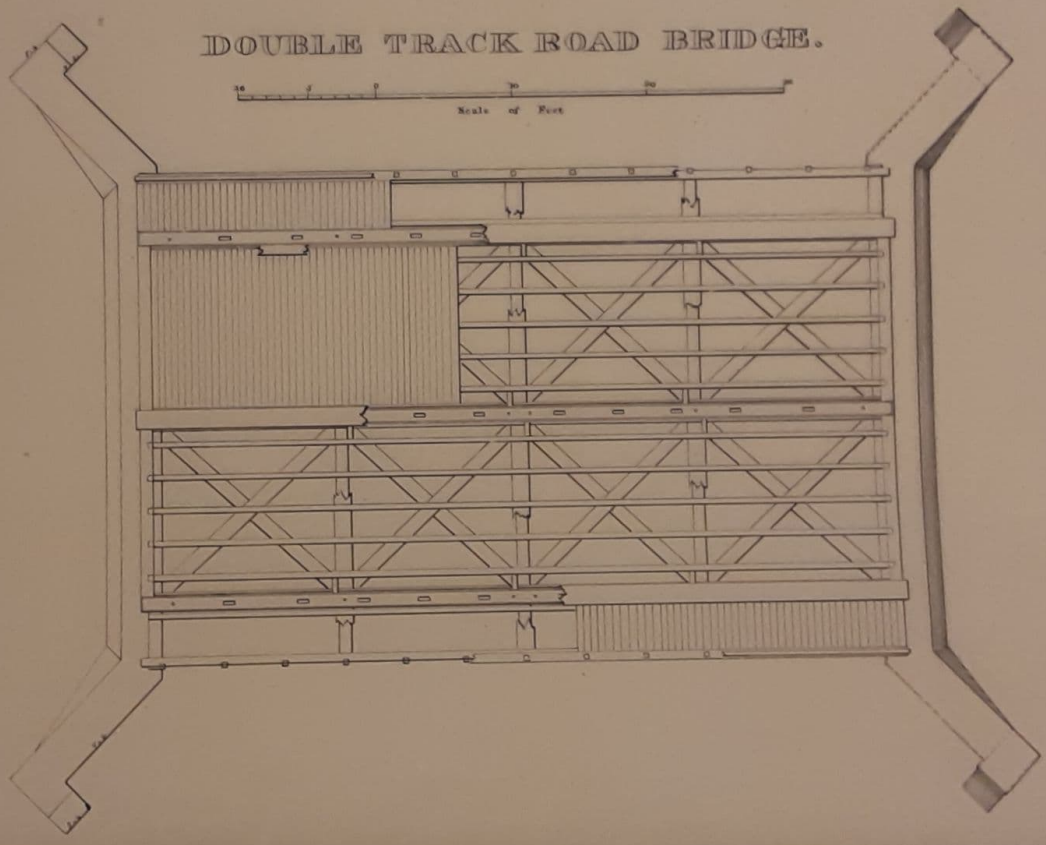


ELEVATION OF ABUTMENT

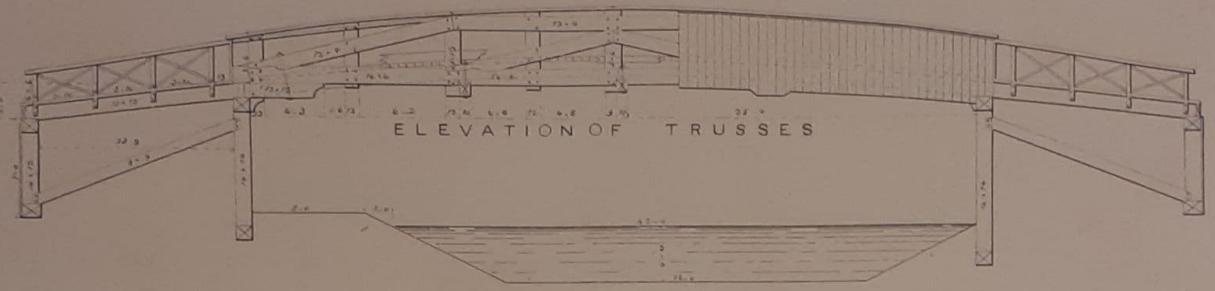




DOUBLE TRACK ROAD BRIDGE.

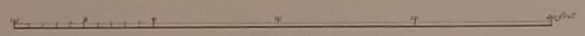


THE BUFFALO HISTORY MUSEUM

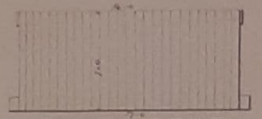


EXTRA BENT

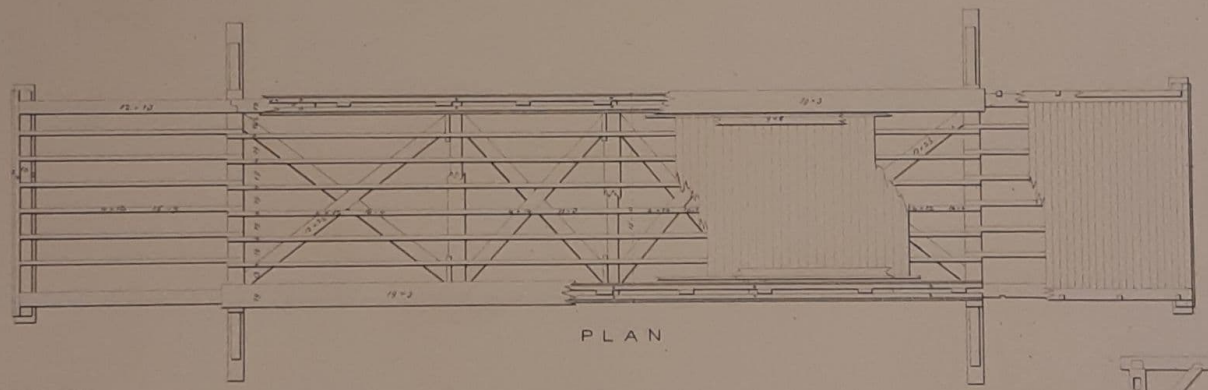
SINGLE TRACK ROAD BRIDGE



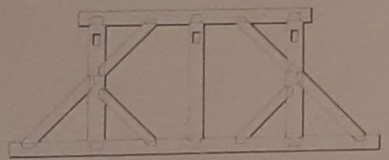
SCALE



EXTRA BENT



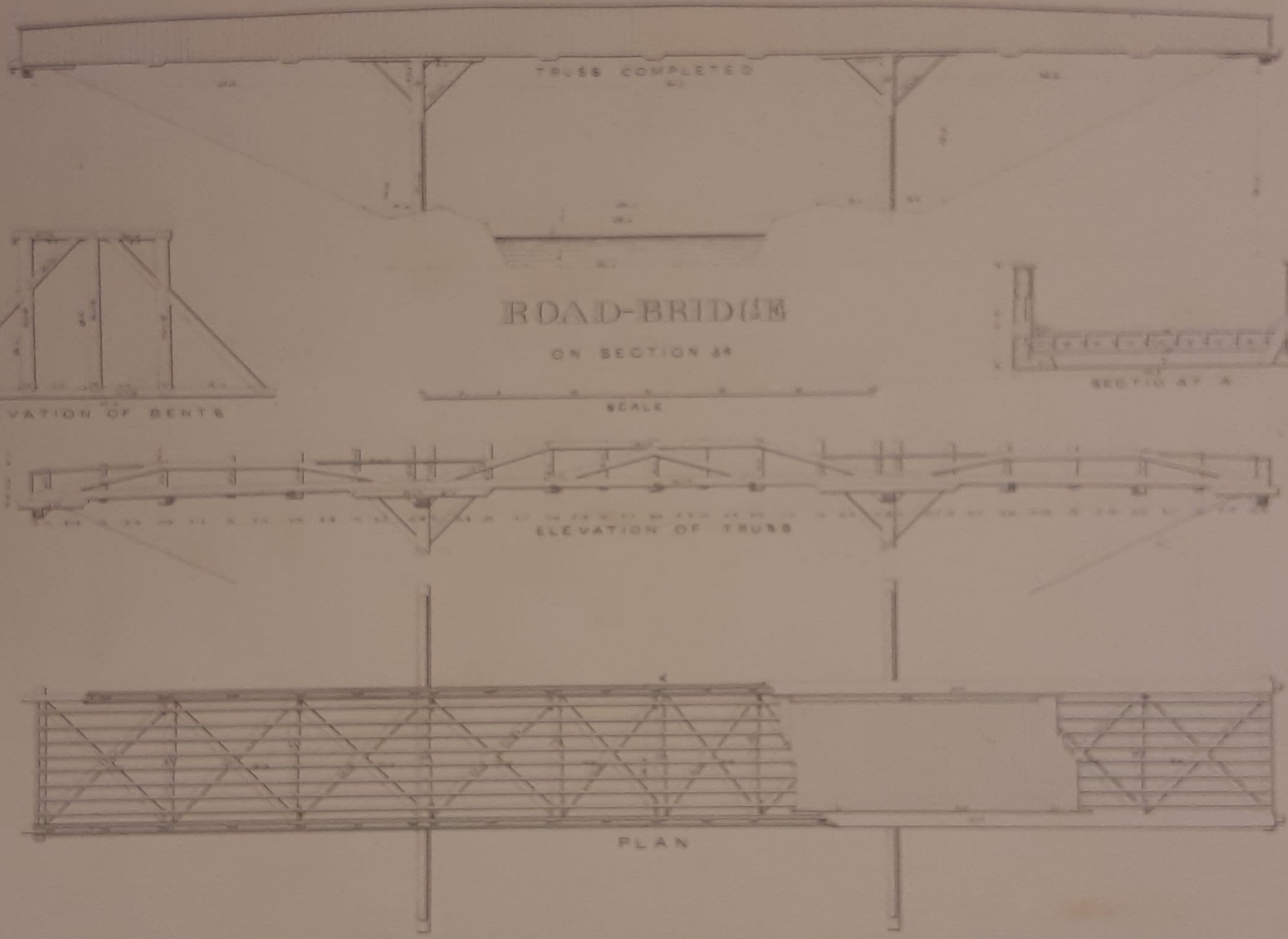
PLAN



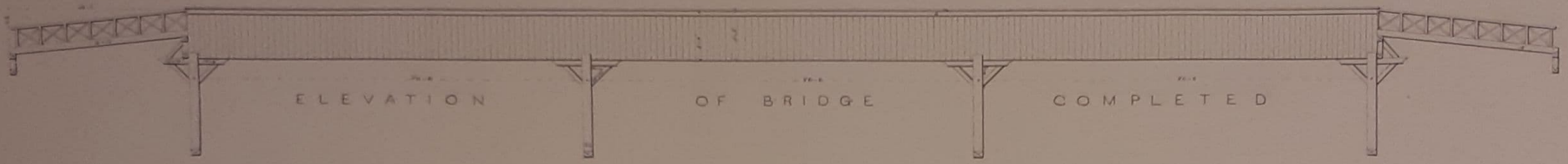
TOWING PATH BENT

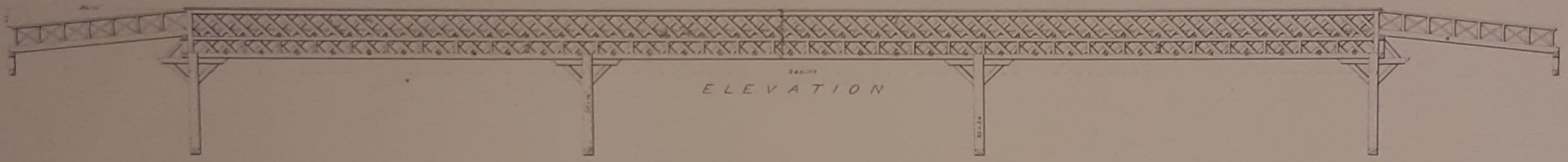
BERM BENT

THE BUFFALO HISTORY MUSEUM



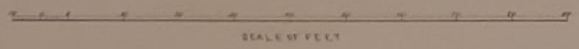
THE BUFFALO HISTORY MUSEUM

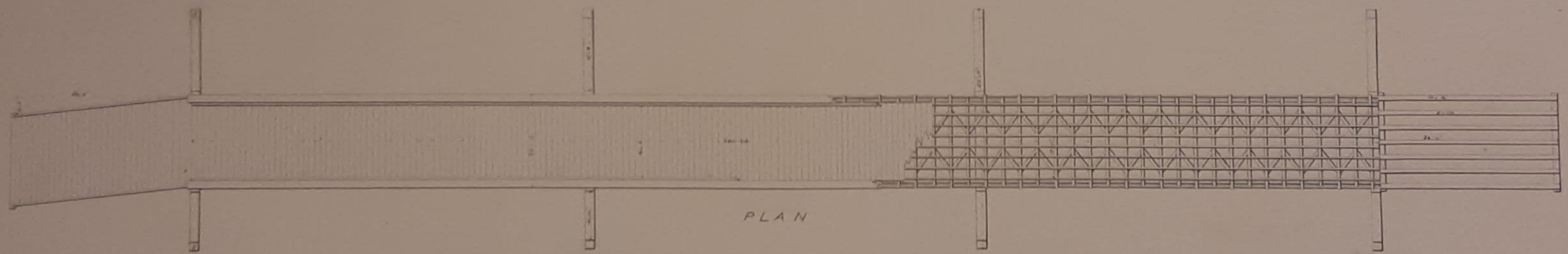




LATTICE BRIDGE

OPPOSITE SECTION N°68





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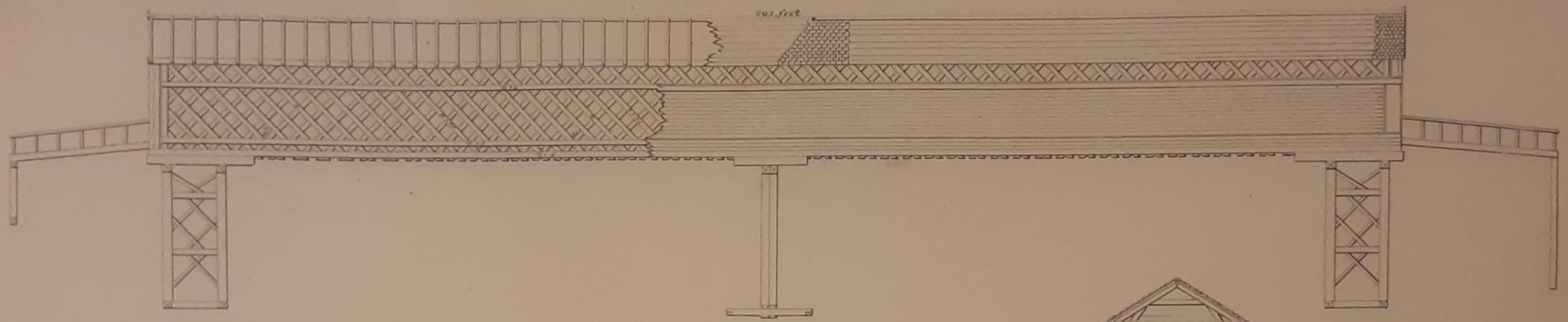
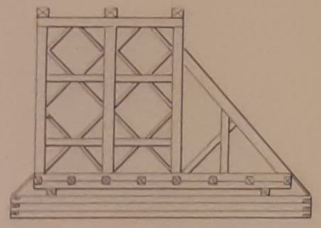


ELEVATION

LATTICE BRIDGE

opposite

SECTION 71



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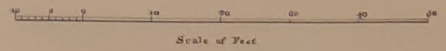
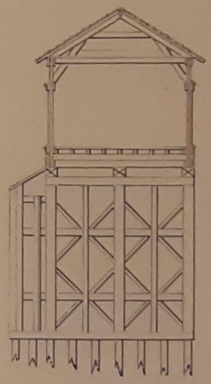


Scale of Feet



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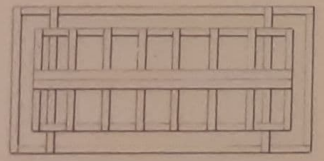
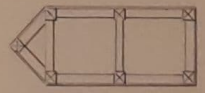
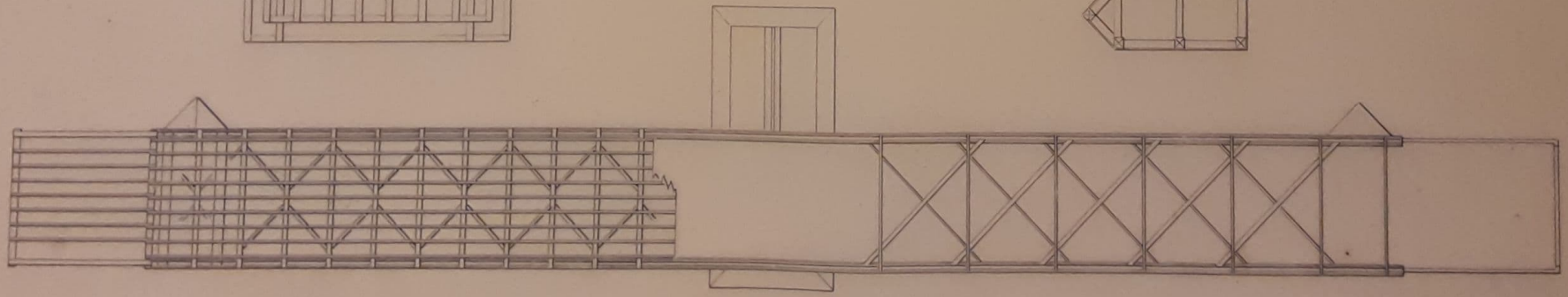
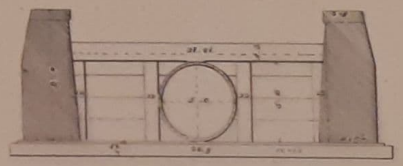




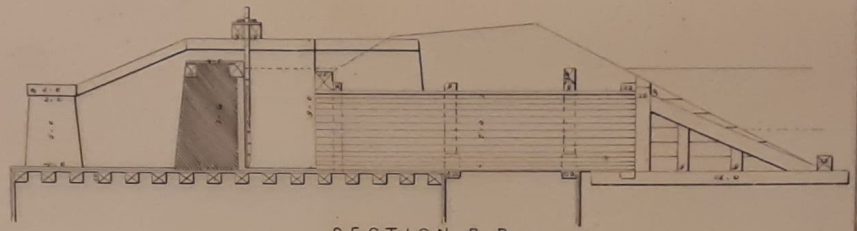


PLAN

THE BUFFALO HISTORY MUSEUM



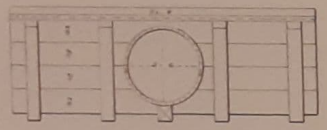
SECTION C C



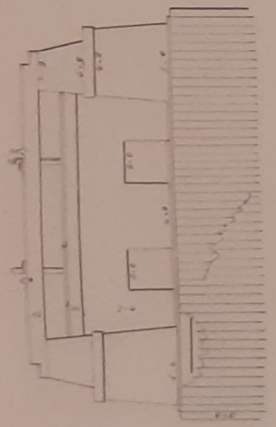
SECTION B B

WASTE-WEIR.

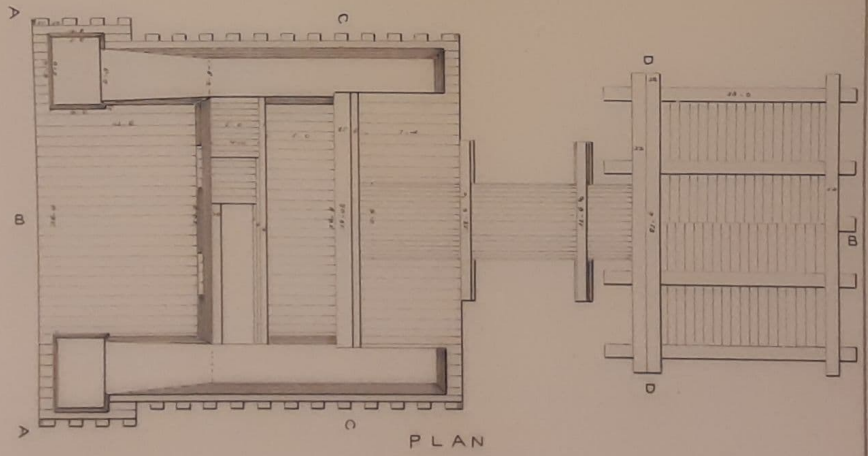
Scale of Feet.



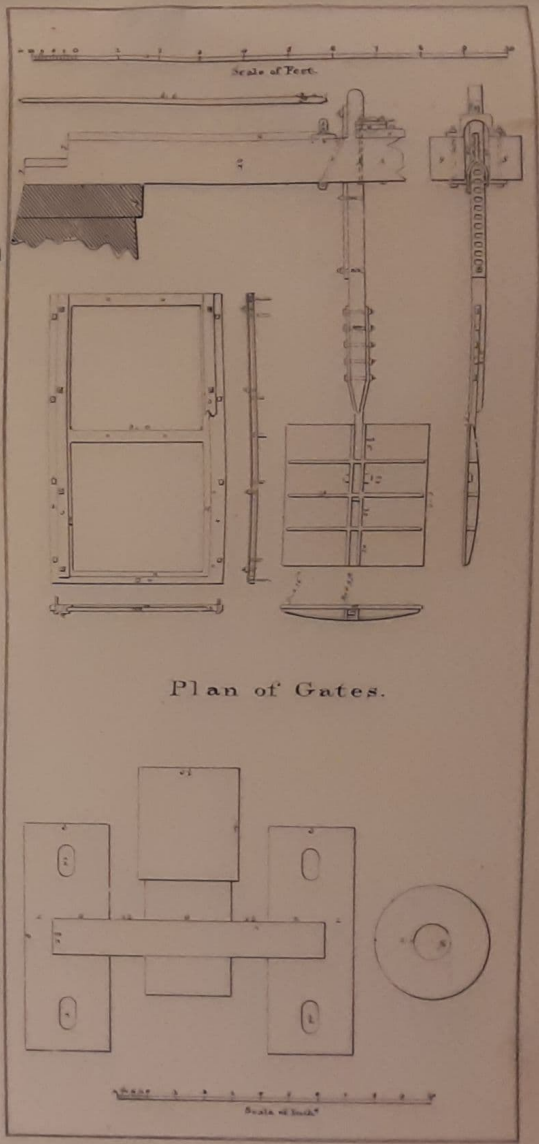
SECTION D D



ELEVATION A A

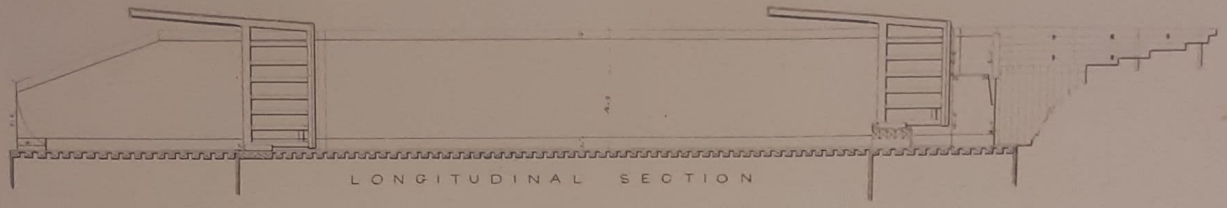


PLAN



Plan of Gates.

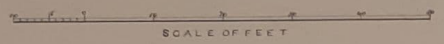
THE BUFFALO HISTORY MUSEUM



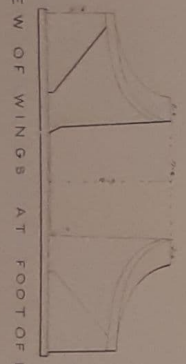
LONGITUDINAL SECTION

STONE LOCK

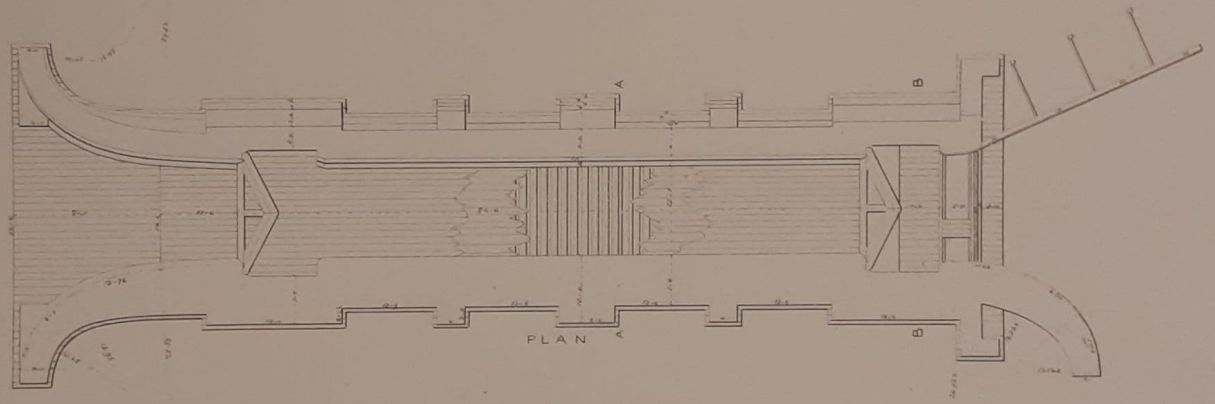
10 FEET LIFT



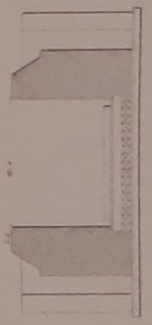
SCALE OF FEET



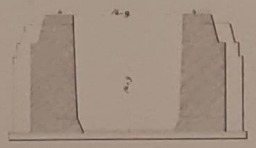
VIEW OF WINGS AT FOOT OF LOCK



PLAN

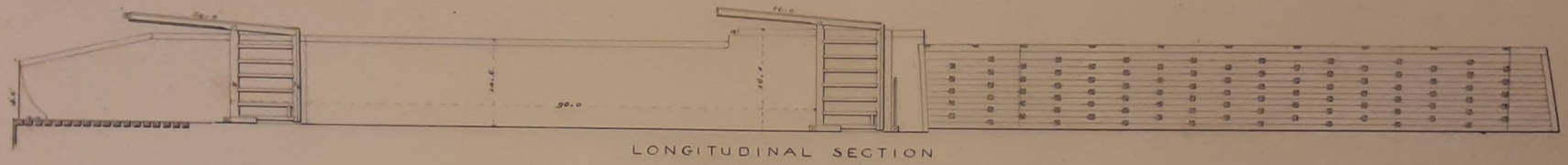


SECTION B.B



SECTION AA

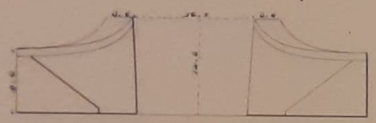
THE BUFFALO HISTORY MUSEUM



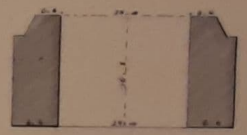
LONGITUDINAL SECTION

GUARD LOCK AND PIER
at
MOUNT MORRIS DAM.

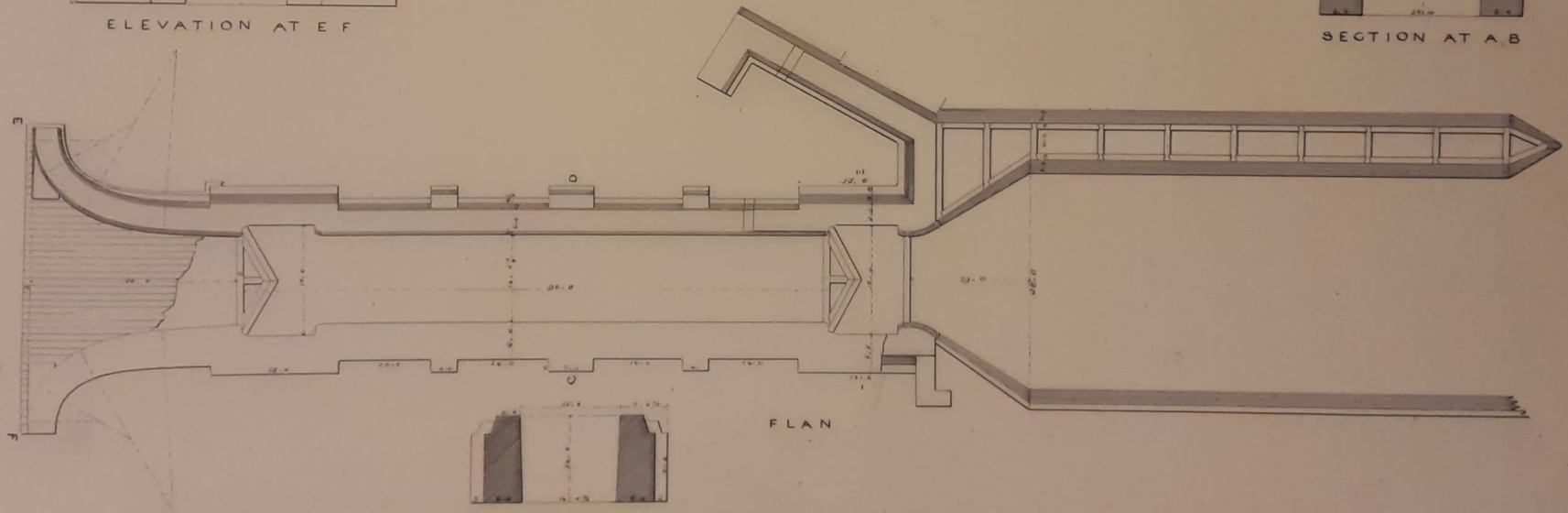
Scale of Feet



ELEVATION AT E F



SECTION AT A B



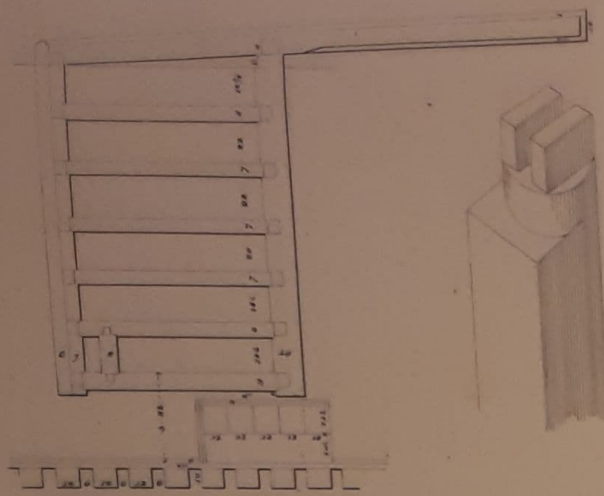
PLAN

SECTION AT C D

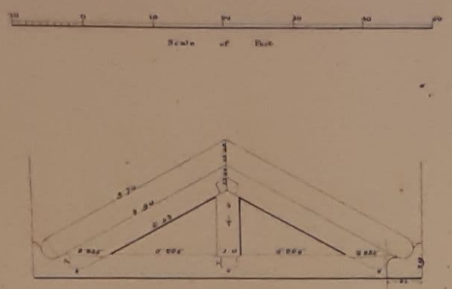
THE BUFFALO HISTORY MUSEUM

COMPOSITE LOCK

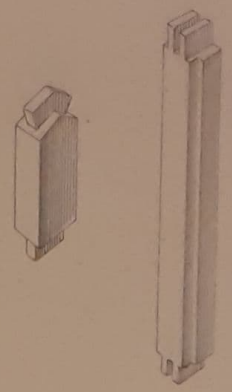
10 FEET LIFT.

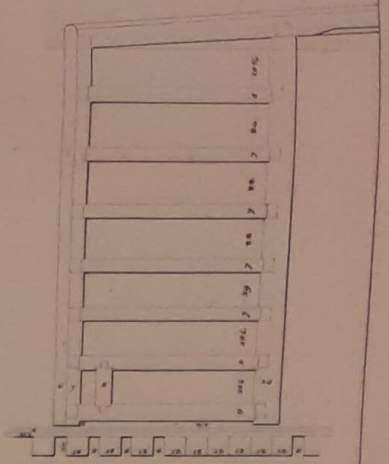


ELEVATION OF UPPER GATE

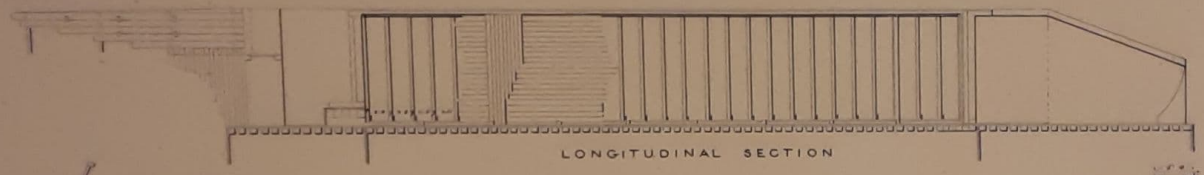


PLAN OF MITRE SILL

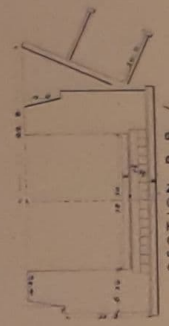




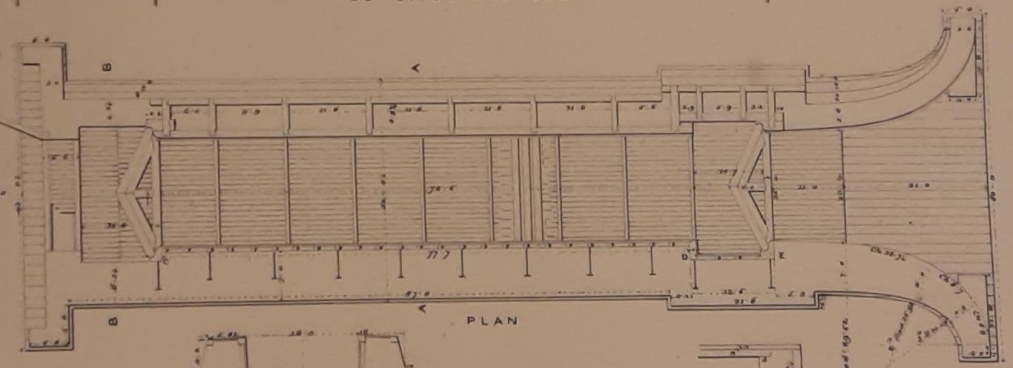
ELEVATION OF LOWER GATE



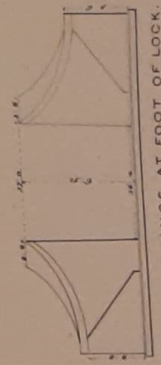
LONGITUDINAL SECTION



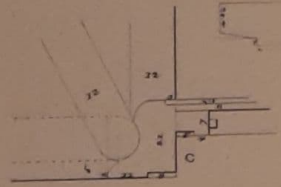
SECTION B B

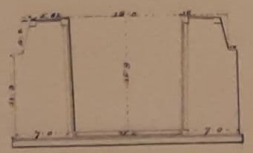


PLAN

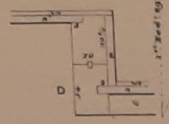


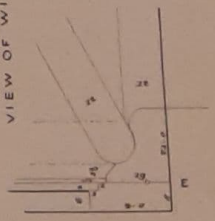
VIEW OF WINGS AT FOOT OF LOCK.



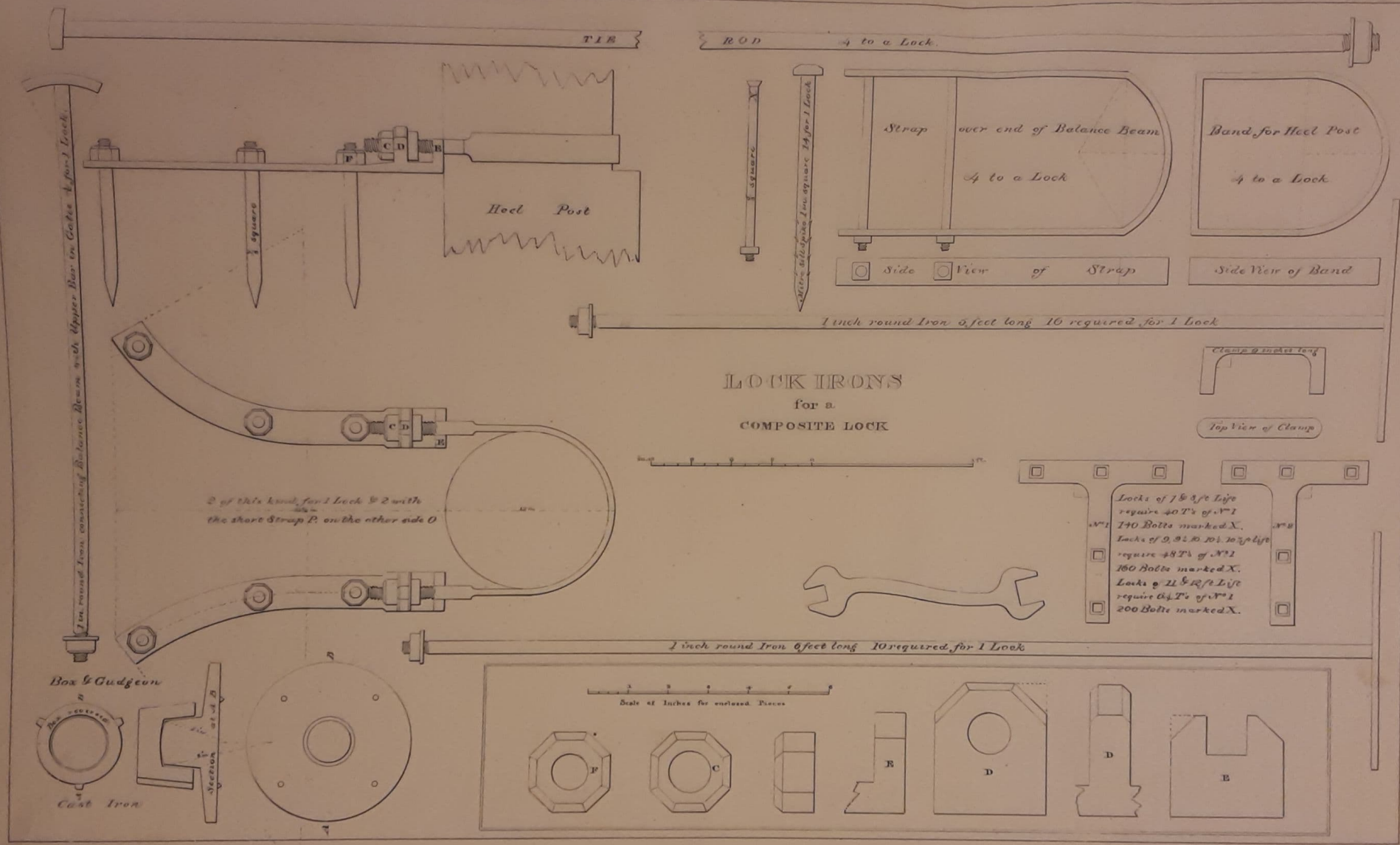


SECTION A A

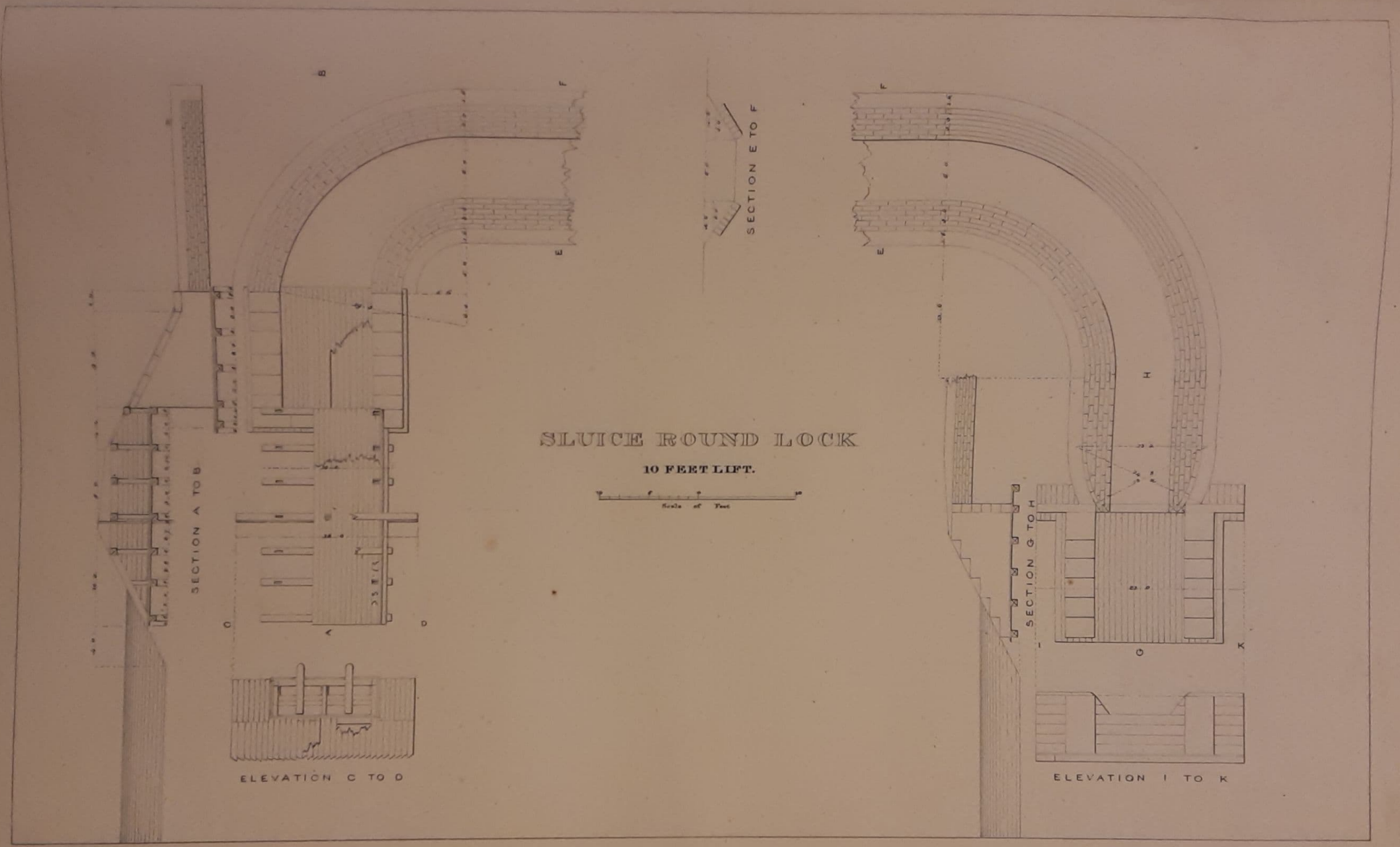




THE BUFFALO HISTORY MUSEUM


TIE
ROD 4 to a Lock.
Strap over end of Balance Beam
4 to a Lock
Band for Heel Post
4 to a Lock
Side View of Strap
Side View of Band
Heel Post
1 inch round Iron 5 feet long 16 required for 1 Lock
LOCK IRONS
for a
COMPOSITE LOCK
2 of this kind for 1 Lock & 2 with the short Strap P. on the other side O
Locks of 1 & 2 ft Lift require 40 T's of N°1 140 Bolts marked X.
Locks of 9, 9½ & 10, 10½ ft lift require 48 T's of N°1 160 Bolts marked X.
Locks of 11 & 12 ft Lift require 64 T's of N°1 200 Bolts marked X.
1 inch round Iron 6 feet long 10 required for 1 Lock
Box & Gudgeon
Cast Iron
Section
Scale of Inches for enclosed Pieces

THE BUFFALO HISTORY MUSEUM

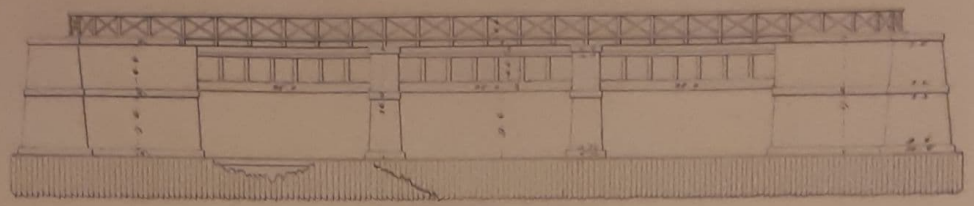


SLUICE ROUND LOCK

10 FEET LIFT.

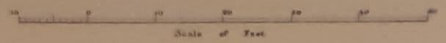
Scale of Feet

THE BUFFALO HISTORY MUSEUM



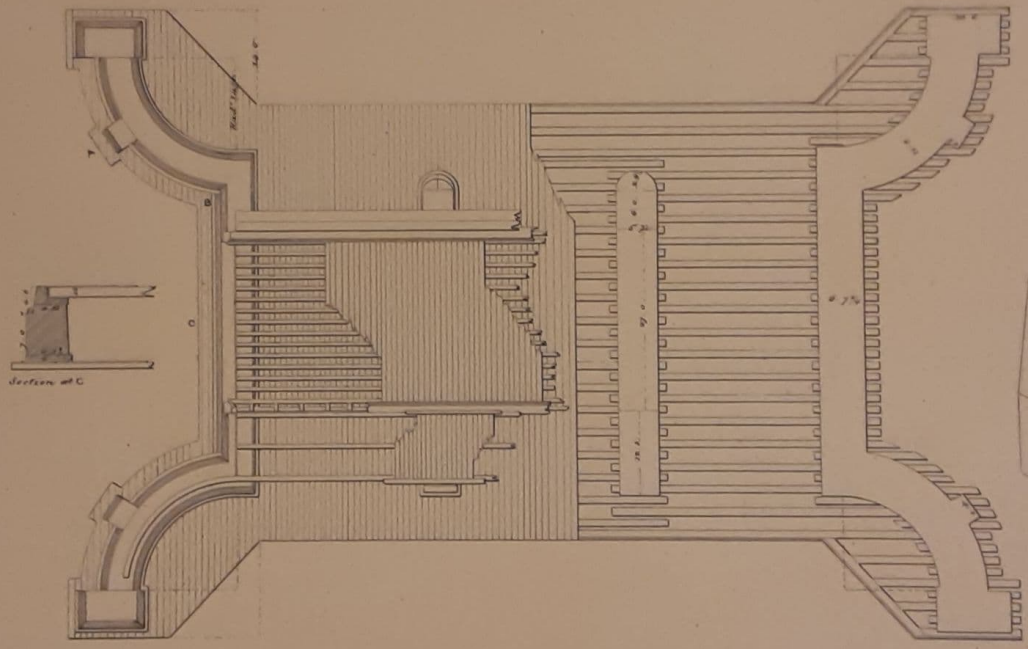
ELEVATION D TO E

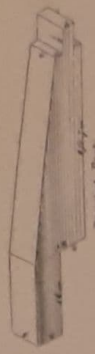
WISCOY CREEK AQUEDUCT.

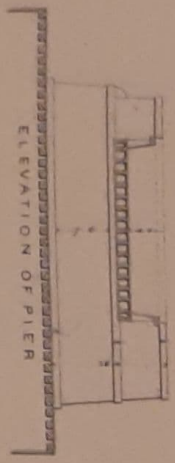


Scale of Feet

ELEVATION OF ABUTMENT F TO G

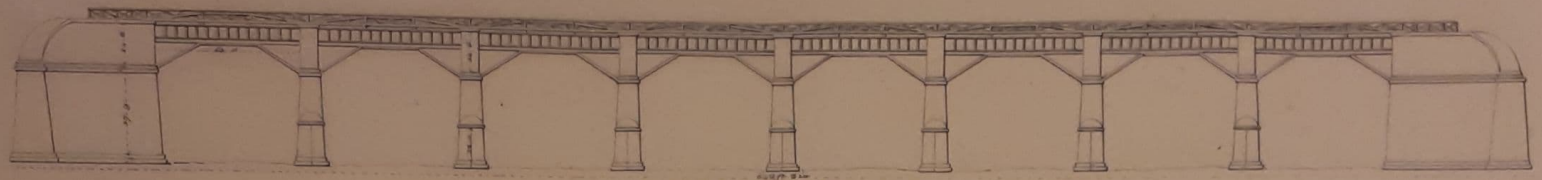




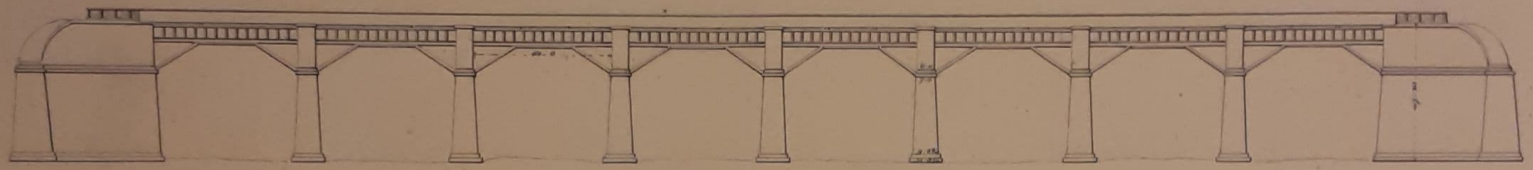


ELEVATION OF PIER

THE BUFFALO HISTORY MUSEUM

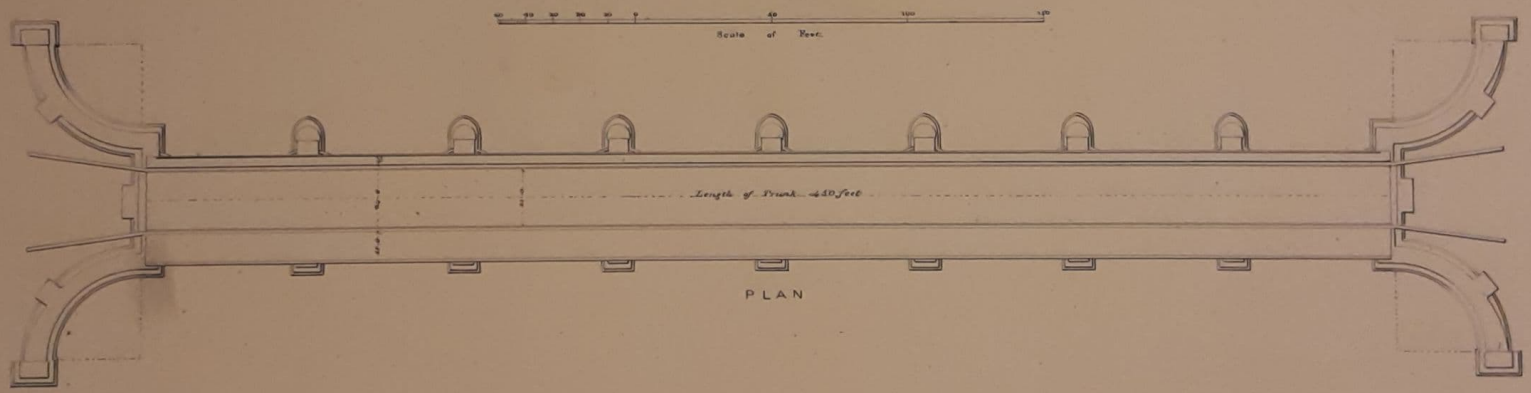


ELEVATION, BERM SIDE



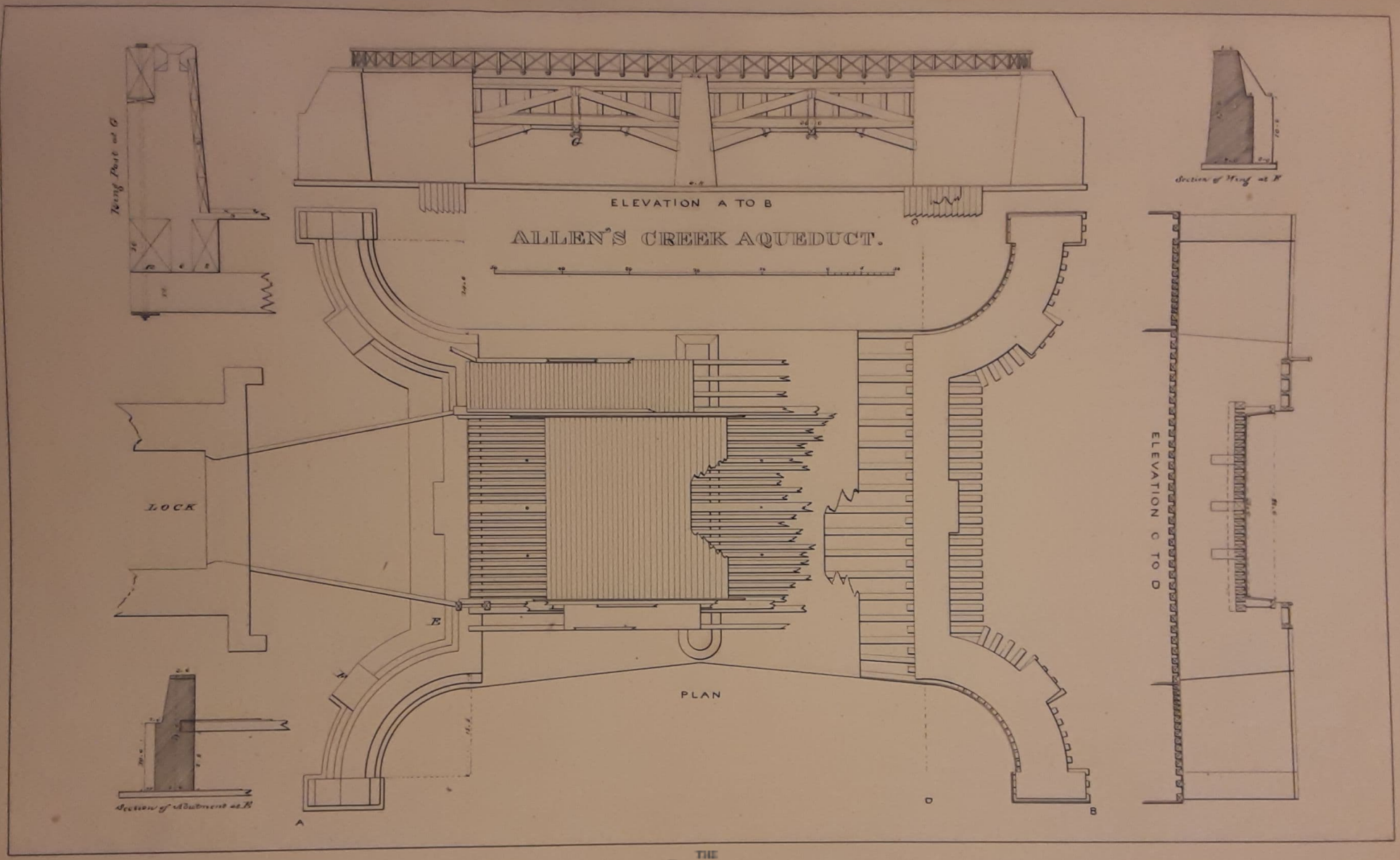
ELEVATION, TOWING PATH SIDE

PORTAGE AQUEDUCT.

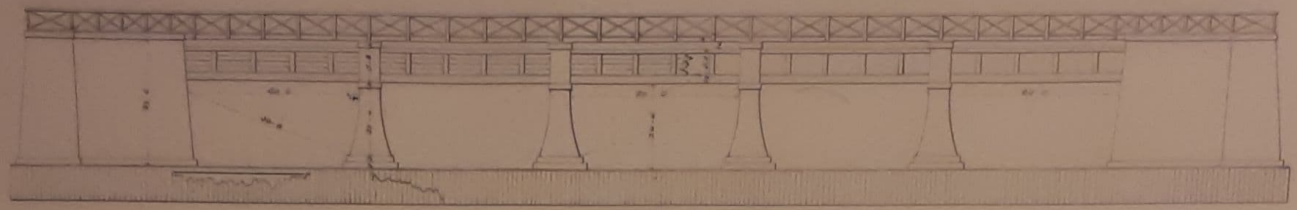


PLAN

THE BUFFALO HISTORY MUSEUM

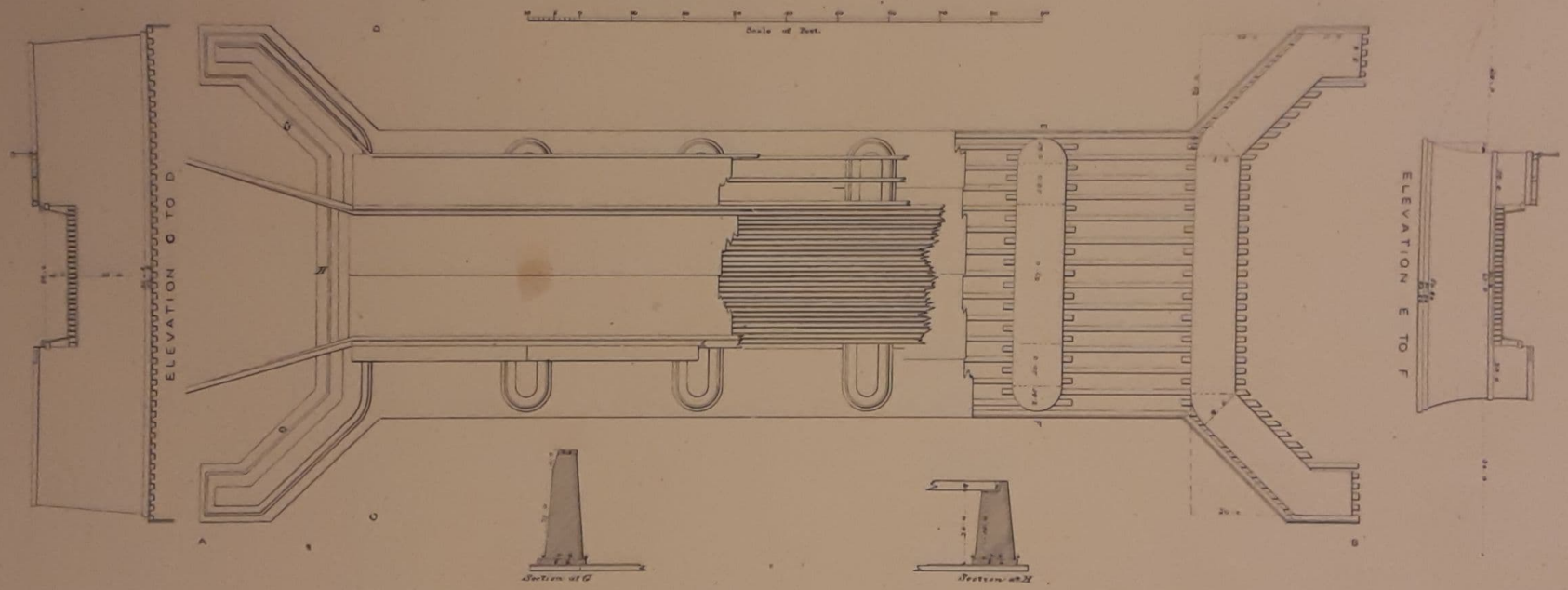


THE BUFFALO HISTORY MUSEUM

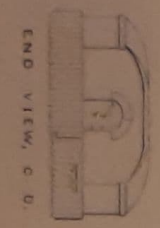


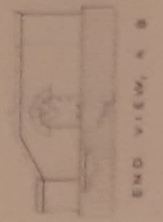
ELEVATION A TO B

OLEAN - CREEK AQUEDUCT.

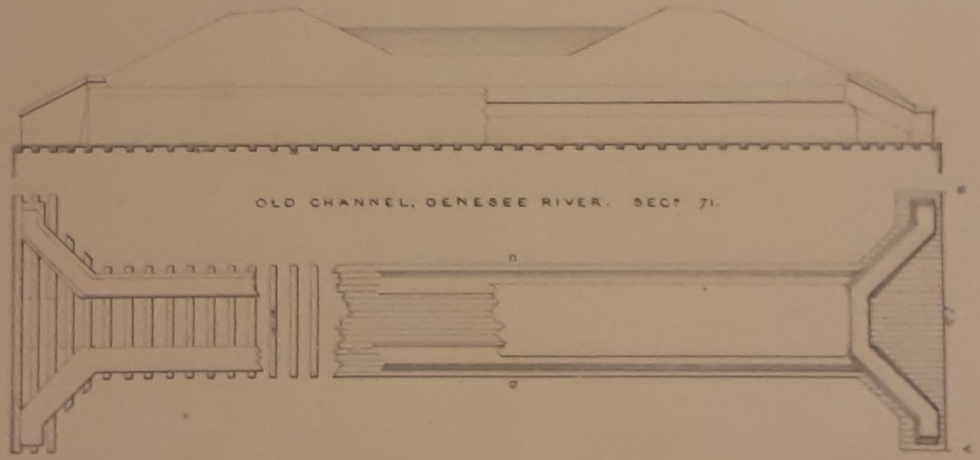


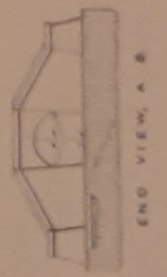
THE BUFFALO HISTORY MUSEUM



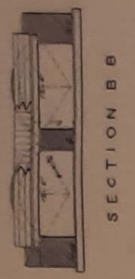


ARCHED CULVERTS.

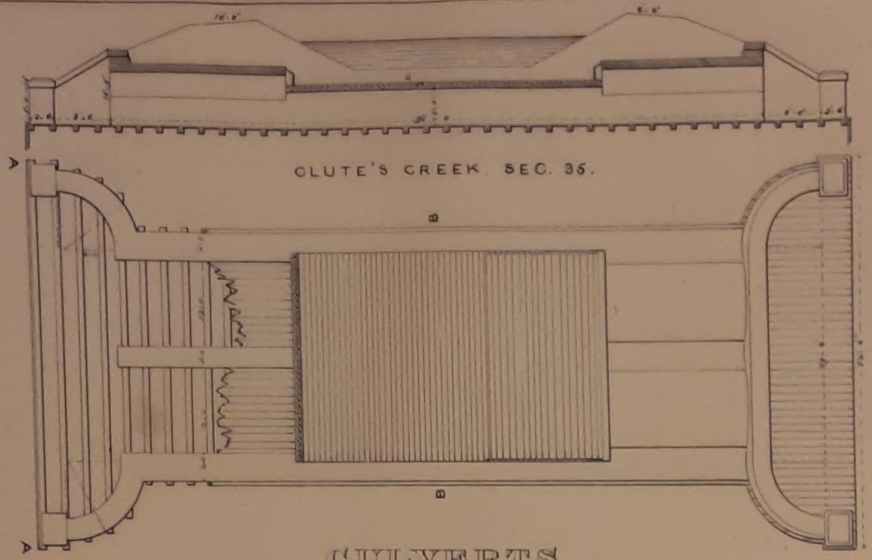




THE BUFFALO HISTORY MUSEUM

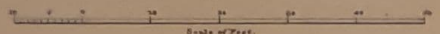


SECTION B B

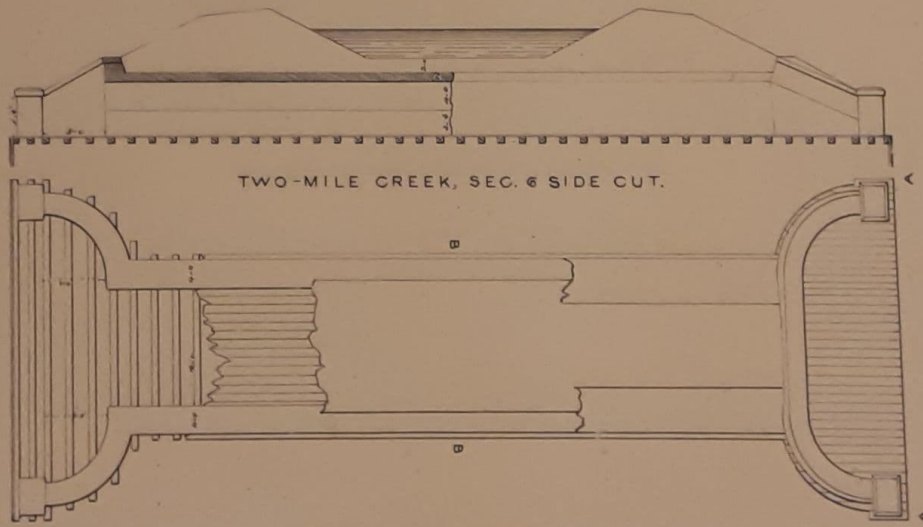


END VIEW A A.

CULVERTS.

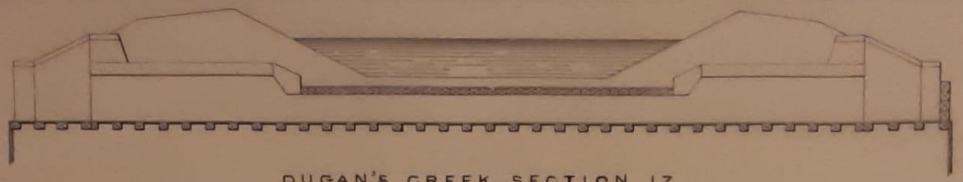


END VIEW A A

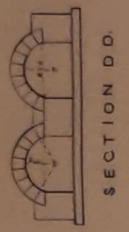


SECTION B B.

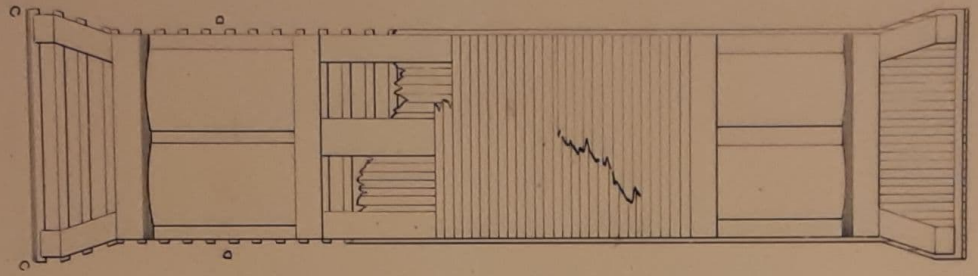
THE BUFFALO HISTORY MUSEUM

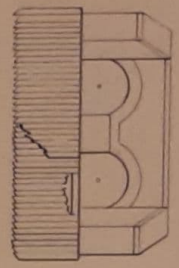


DUGAN'S CREEK, SECTION 17.



SECTION D.D.





END VIEW C.C.

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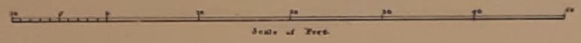
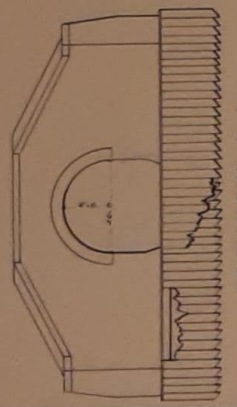
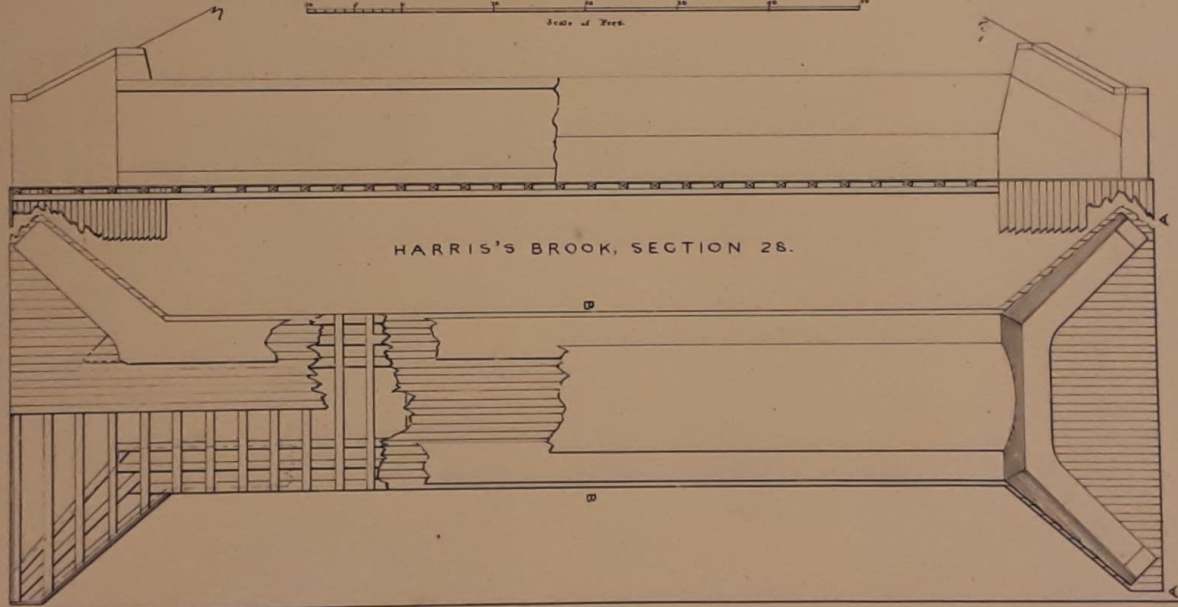
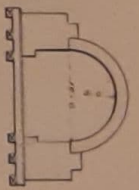




END VIEW A.A.

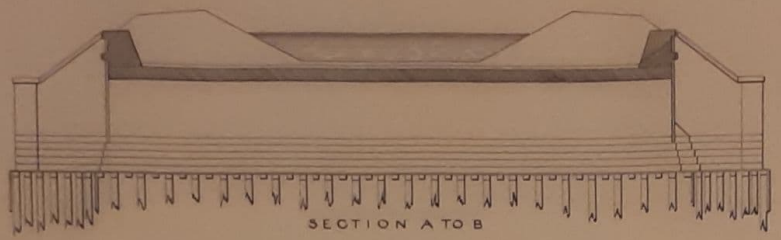


HARRIS'S BROOK, SECTION 28.



SECTION B.B.

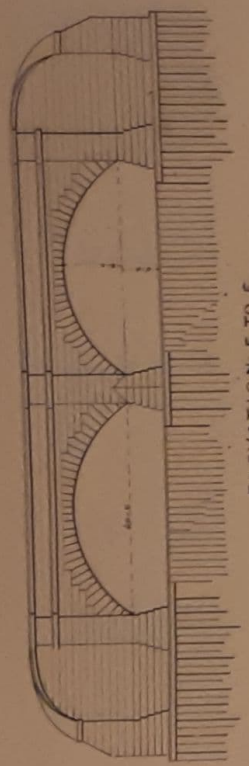
THE BUFFALO HISTORY MUSEUM



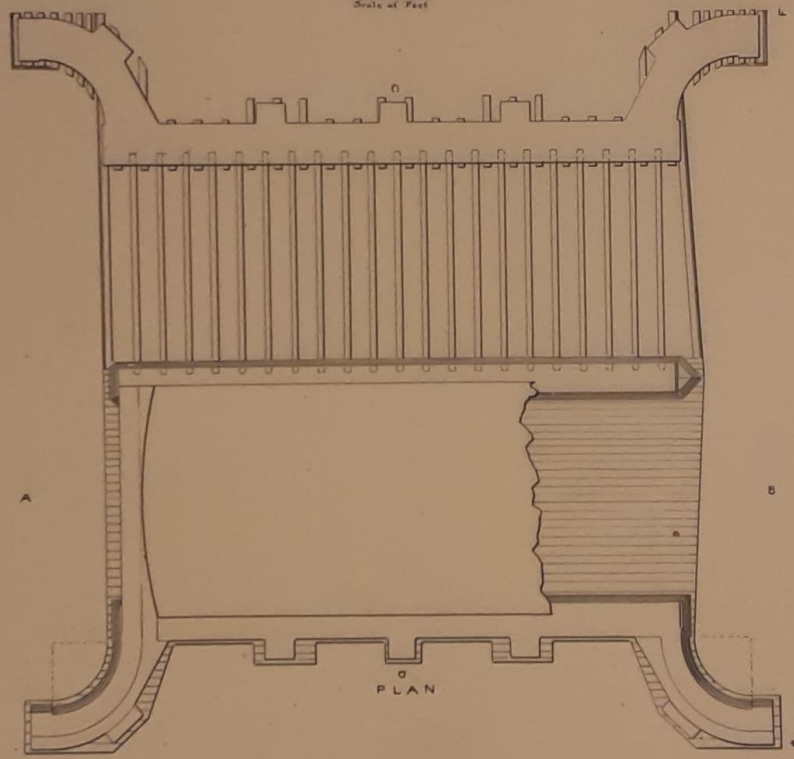
SECTION A TO B

BLACK-CREEK CULVERT.

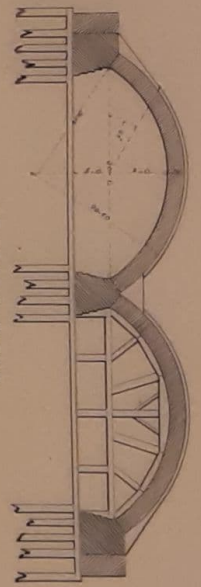
Scale of Feet



ELEVATION E TO F

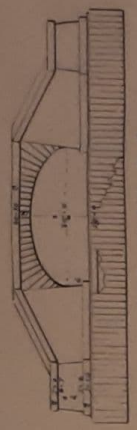


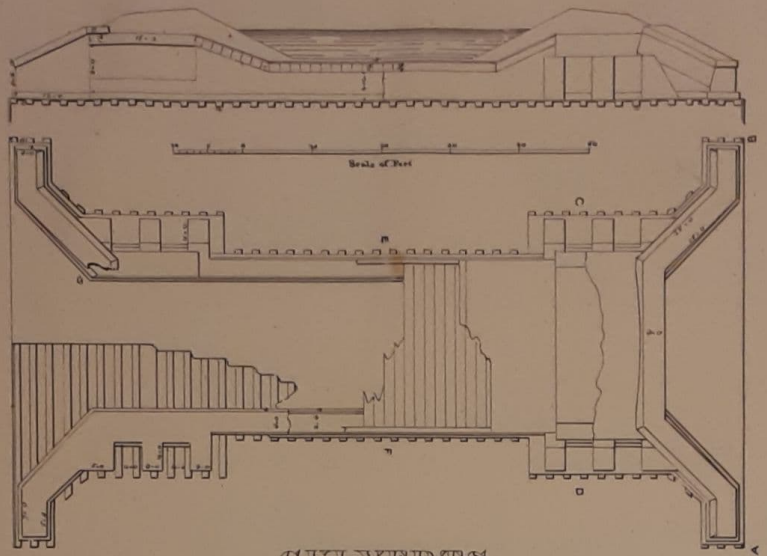
PLAN



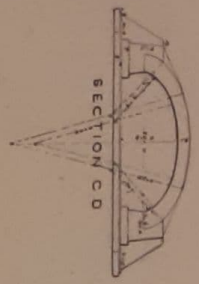
SECTION C TO D

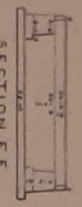
THE BUFFALO HISTORY MUSEUM

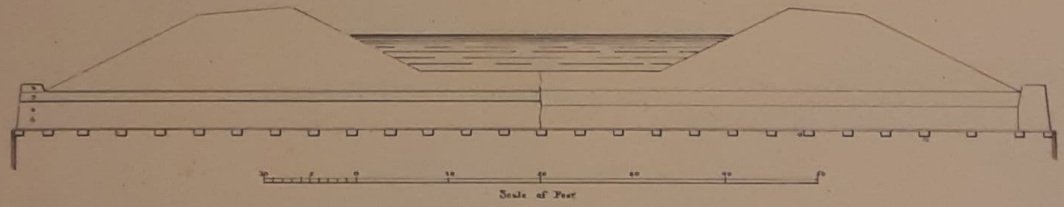


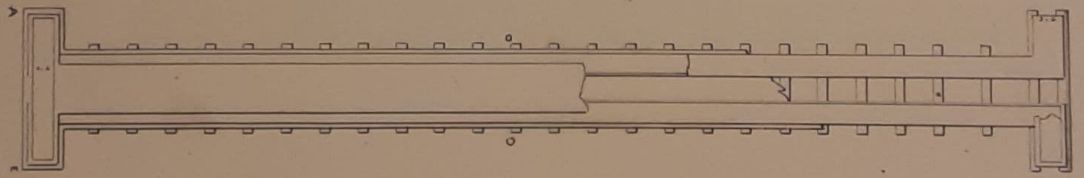


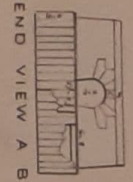
CULVERTS.



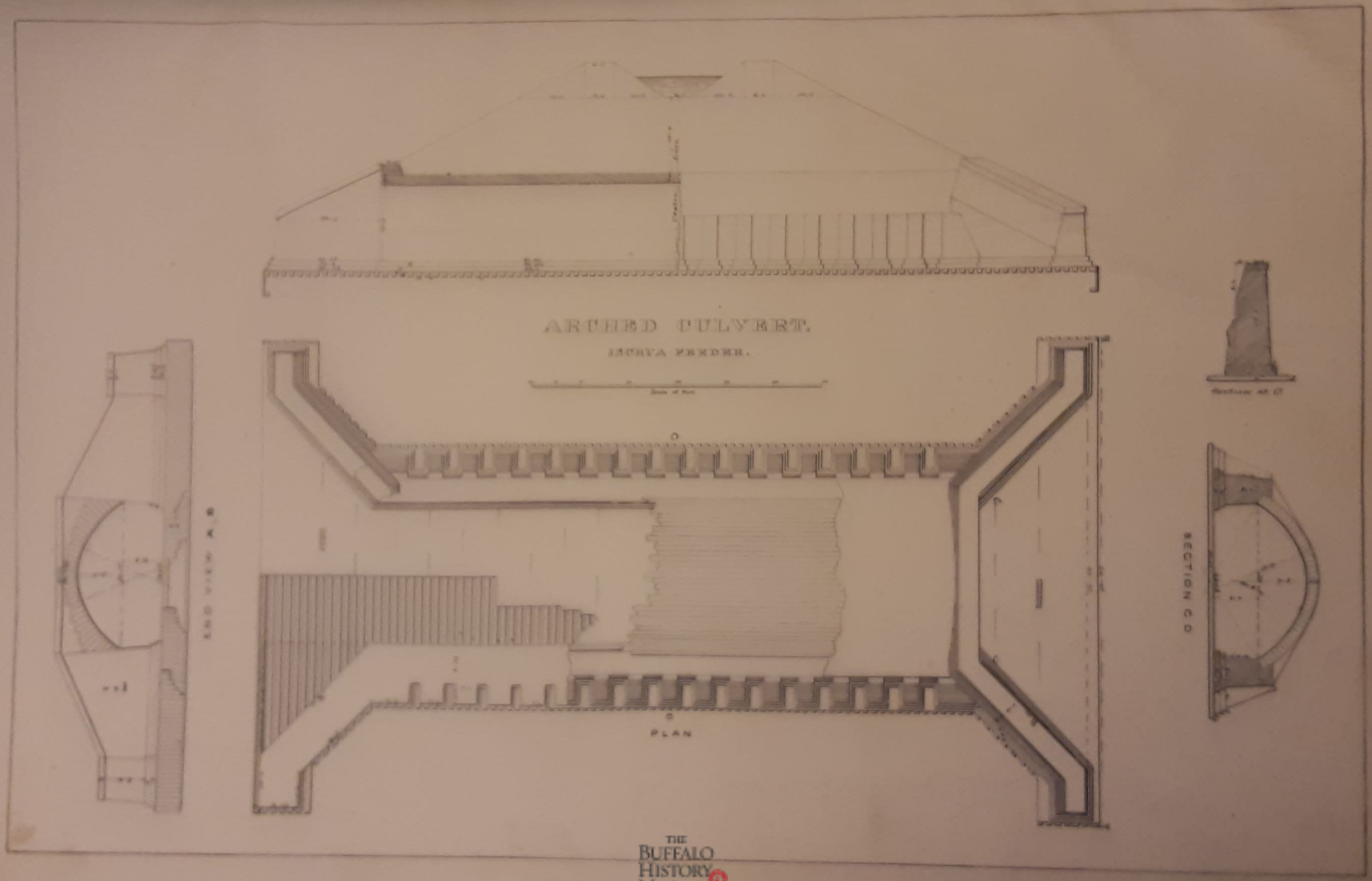








THE BUFFALO HISTORY MUSEUM



THE BUFFALO HISTORY MUSEUM